

CLAIMS

We claim:

1. An apparatus including:

a media presenter,

5 wherein the presenter is adapted for use in an automated banking machine,

wherein the presenter includes a housing,

wherein the housing includes an outlet,

wherein the presenter includes a gate arrangement,

wherein the gate arrangement includes a gate,

10 wherein the gate is movable between a closed position and
an open position,

wherein in the closed position the gate prevents
passage of a currency note stack through the outlet,

wherein in the open position the gate permits
passage of the currency note stack through the
outlet,

wherein the gate arrangement includes at least one cam arm,

wherein the at least one arm is connected to the gate,

wherein movement of the at least one arm is
operative to move the gate between the closed
position and the open position,

wherein the gate arrangement includes at least one actuator lever,

wherein the at least one lever is movable relative to the at
least one arm,

wherein actuation of the at least one lever is operative to
move the at least one arm.

2. The apparatus according to claim 1 wherein an arm is located adjacent to a lever, wherein one of the arm and the lever includes an angled slot, wherein the other of the arm and the lever includes a pin, wherein the pin is movable in the slot.

3. The apparatus according to claim 2 wherein actuation of the lever causes the pin to move along the slot.

4. The apparatus according to claim 3 wherein the arm includes a first arm end and a second arm end, wherein the first arm end is connected to the gate, wherein the second arm end includes a pivot axis, wherein the arm is operative to pivot about the pivot axis.

5. The apparatus according to claim 4 wherein the lever is linked with the arm, wherein the lever includes the slot, wherein the arm includes the pin.

6. The apparatus according to claim 4 wherein the slot is angled upward, wherein the pin is operative to move upward in the slot, wherein the gate correspondingly moves in an opening direction as the pin moves upward in the slot.

7. The apparatus according to claim 1 wherein the presenter includes a roller shaft having plural rollers thereon, wherein the roller shaft is located adjacent the outlet, wherein each roller includes an outer circumferential surface having a center portion and tapering portions, wherein the center portion is located between tapering portions, wherein the

diameter of each tapering portion narrows in a direction extending away from the center portion.

8. The apparatus according to claim 7 wherein the presenter includes a plurality of belts, wherein each center portion supports a belt thereon.

5 9. The apparatus according to claim 7 wherein the presenter includes at least one rail, wherein the at least one rail has a flexible end adjacent the outlet, wherein the presenter is operative to pass notes between at least one flexible end and the rollers, wherein the positional relationship of the at least one flexible end and the rollers is operative to impart a wavy configuration to notes passing therebetween.

10 10. The apparatus according to claim 9 wherein each rail is adapted to have a stack of notes moved thereon.

11. The apparatus according to claim 9 wherein each flexible end is aligned opposite a respective tapering portion.

12. The apparatus according to claim 11 wherein a flexible end comprises a flexible finger,
15 wherein the flexible finger is spring biased toward the roller shaft.

13. The apparatus according to claim 12 wherein a rail comprises an elongated rail body and a split end, wherein the rail body extends in a first direction, wherein the split end is adjacent the outlet, wherein the split end includes an elongated flexible finger and an elongated flanged finger, wherein both the flexible finger and the flanged finger extend in the first direction.

14. The apparatus according to claim 13 wherein the flanged finger comprises an end tip portion, wherein the end tip portion extends in the first direction a greater distance than the flexible finger, wherein the end tip portion includes a lip extending in a direction substantially perpendicular to the first direction.

15. The apparatus according to claim 13 wherein the flanged finger comprises a transverse portion extending substantially perpendicular to the first direction, wherein the transverse portion includes a raised hump, wherein the raised hump contributes to impartation of the wavy configuration.

16. The apparatus according to claim 1 wherein the presenter comprises a currency presenter in an ATM, wherein the currency presenter contains at least one currency note therein.

17. A method of operating the apparatus recited in claim 4, comprising:

(a) moving a currency note stack in the presenter toward the gate;

(b) actuating the lever to cause the gate to move to the open position;

(c) moving the currency note stack through the outlet.

18. An apparatus including:

a media presenter,

5 wherein the presenter is adapted for use in an automated banking machine,

wherein the presenter includes a housing,

wherein the housing includes an outlet,

wherein the presenter includes a gate arrangement,

wherein the gate arrangement includes a gate,

10 wherein the gate is movable between a closed position and an open position,

wherein in the closed position the gate prevents passage of
a currency note stack through the outlet,

wherein in the open position the gate permits passage of the
currency note stack through the outlet,

5 wherein the gate arrangement includes at least one cam arm and at least
one actuator lever,

wherein a lever is located adjacent to an arm,

wherein the arm includes a first arm end and a second arm
end,

10 wherein the first arm end is connected to the gate,

wherein the second arm end includes a pivot axis,

wherein the arm is operative to pivot about
the pivot axis,

wherein movement of the arm about
the pivot axis is operative to move
the gate between the closed position
and the open position,

5 wherein the lever is movable relative to the at least one
arm,

wherein one of the arm and the lever includes a slot,

wherein the slot is angled upward,

wherein the other of the arm and the lever includes a
10 pin,

wherein the pin is operative to move upward
in the slot,

wherein actuation of the lever is operative to move the arm,

wherein actuation of the lever causes the pin to
15 move upward in the slot,

wherein the gate correspondingly moves in
an opening direction as the pin moves
upward in the slot.